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PHOTOGRAPHIC INTERPRETATION REPORT

January 1965

MEASUREMENTS OF MISSILE-READY BUILDINGS AT TYPE II SOVIET ICBM LAUNCH SITES



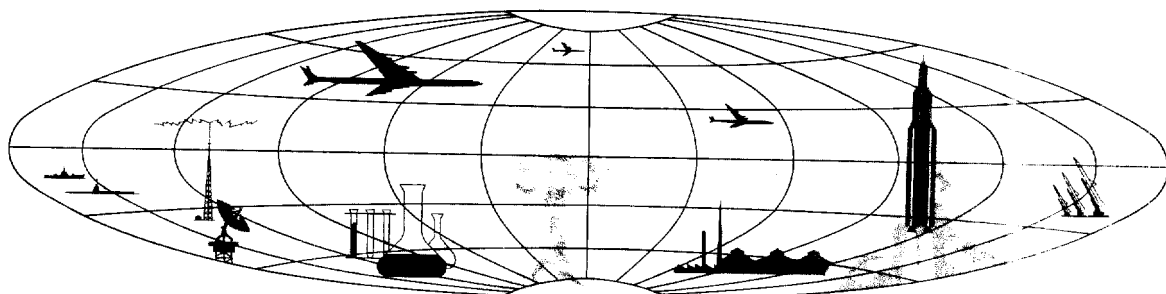
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GROUP 1
Excluded from automatic
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**MEASUREMENTS OF MISSILE-READY BUILDINGS
AT TYPE II
SOVIET ICBM LAUNCH SITES**

This report presents the results of a comprehensive machine analysis of measurements of missile-ready buildings derived from [] [] photography of all known Type II Soviet ICBM launch sites. The sites are listed alphabetically by complex in Table I, showing the best possible measurements of the ready buildings, the photography from which they were derived, and qualifying remarks. Figure 1 shows artist's concepts of the types of missile-ready buildings.

All measurements were made on the most accurate equipment available, and all measurement points were repeated an average of 3 to

5 times on the best quality photography available to obtain the maximum accuracy possible. However, the photography from the earlier missions is generally of poor quality, making good mensuration difficult. The establishment of good measurement points is also difficult on even the best quality photography in that the earth covering, banking, or mounding of the ready buildings makes them difficult to distinguish. Exact measurements of the narrow ready buildings at a number of sites are almost impossible to determine.

Ready buildings are positioned to the right or left as seen from the rear of the site.

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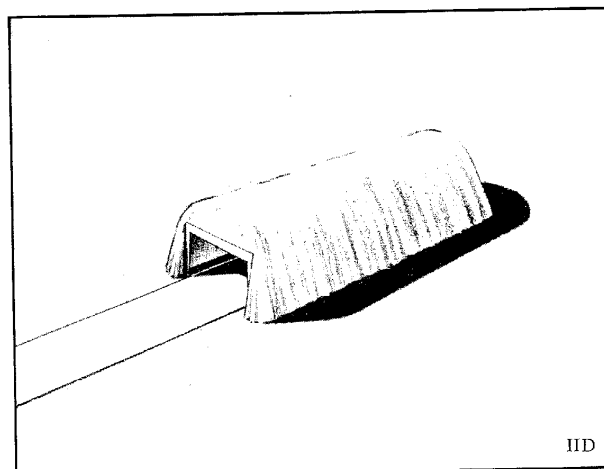
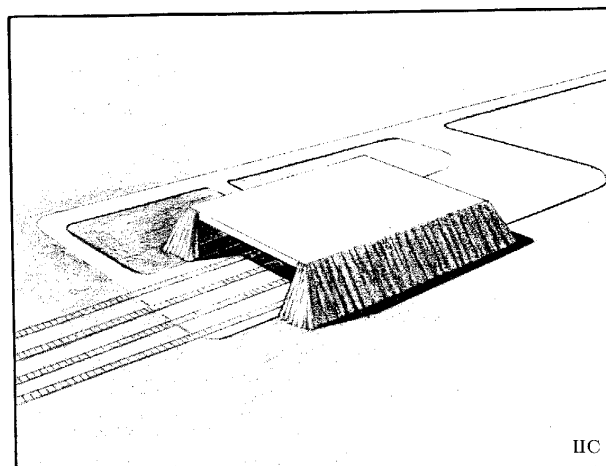
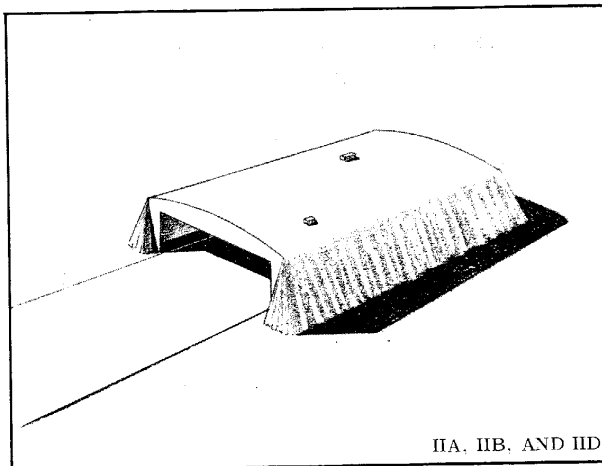
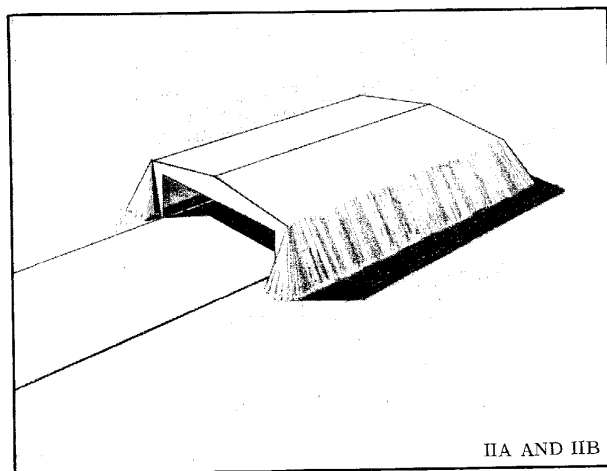


FIGURE 1. ARTIST'S CONCEPTS OF READY BUILDINGS AT TYPE II SITES.

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Table 1. Dimensions of Missile-Ready Buildings at Type II Soviet ICBM Launch Sites

Complex/Site	Type	Mission	Missile-Ready Bldgs		Remarks
			Right (ft)	Left (ft)	
DROVYANAYA					
Launch Site A	IIB		170 x 85	150 x 110	Earth-banked ready bldgs; photo quality good; dimensions fairly accurate
Launch Site C	IID		140 x 65	170 x 135	Right bldg, earth mounded; left, earth-banked; photo quality poor
Launch Site D	IID		--	--	Photo quality poor; dimensions cannot be determined
GLADKAYA					
Launch Site A	IID		140 x 95	None	Ready bldg not earth covered; photo quality poor
			155 x 100	None	Ready bldg not earth covered; length indefinite
			155 x 105	None	Ready bldg earth-banked; photo quality poor; length indefinite
Launch Site B	IID		155 x 40	None	Ready bldg not earth covered; photo quality poor
			155 x 80	None	Ready bldg not earth covered; photo quality fair
			165 x 100	None	Ready bldg earth banked; photo quality poor
ITATKA					
Launch Site A	IIB		155 x 110	135 x 30	Right bldg, earth banked; left not earth covered; photo quality good for right bldg, poor for left
Launch Site B	IIB		170 x 105	None	Ready bldg earth banked; length indefinite
Launch Site C	IID		175 x 45	175 x 40	Earth-mounded ready bldgs; photo quality fair for right bldg,
				170 x 45	fair-to-good for left bldgs
KOSTROMA					
Launch Site A	IIB		160 x 105	160 x 85	Earth-banked ready bldgs; photo quality fair-to-good for right bldg, good for left
Launch Site B	IIB		155 x 70	170 x 90	Earth-banked ready bldgs; photo quality fair-to-good
Launch Site C	IIB		155 x 95	None	Earth-banked ready bldg; photo quality fair-to-good
Launch Site D	IIB		155 x 95	None	Earth-banked ready bldg; photo quality fair-to-good
Launch Site F	IID		160 x 105	145 x 35	Right bldg, earth banked; left, earth mounded; photo quality good for right bldg; poor for left
Launch Site G	IID		155 x 105	None	Earth-banked ready bldg; photo quality fair-to-good
KOZELSK					
Launch Site A	IIC		130 x 80	135 x 80	Earth-banked ready bldgs; photo quality fair
Launch Site B	IIC		135 x 100	130 x 100	Earth-banked ready bldgs; photo quality fair
Launch Site D	IIC		145 x 85	145 x 85	Earth-banked ready bldgs; photo quality fair
NOVOSIBIRSK					
Launch Site A	IIB		170 x 120	140 x 30	Right bldg, earth banked; left, arched bldg, not earth covered; photo quality fair
Launch Site D	IID		155 x 105	140 x 30	Right bldg, earth banked; left bldg, arched, not earth covered; photo quality fair
Launch Site E	IID		165 x 55	--	Earth-mounded ready bldgs; photo quality poor
			185 x 55		
PERM					
Launch Site A	IIB		None	160 x 125	Earth-banked ready bldg; photo quality fair
Launch Site B	IIB		155 x 105	None	Earth-banked ready bldg; photo quality fair
Launch Site C	IIB		None	155 x 115	Ready bldg not earth banked; photo quality fair
Launch Site D	IID		160 x 95	None	Ready bldg not earth covered; photo quality fair-to-good
Launch Site E	IID		140 x 40	125 x 40	Right bldg, earth mounded; left bldg 125 x 40, not earth covered;
				130 x 45	other left bldg, earth mounded; photo quality poor
PLESETSK					
Launch Site A	IIA		160 x 85	155 x 100	Ready bldgs not earth covered; photo quality good
Launch Site B	IIB		160 x 105	160 x 120	Earth-banked ready bldgs; photo quality fair
Launch Site D	IIC		140 x 120	130 x 100	Earth-banked ready bldgs; photo quality poor
Launch Site E	IIC		145 x 125	135 x 125	Earth-banked ready bldgs; photo quality fair-to-good

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Table 1 (Continued)

Complex, Site	Type	Mission	Missile-Ready Bldgs Right (ft)	Left (ft)	Remarks
SVOBODNY					
Launch Site A	IIB		180 x 125	165 x 105	Earth-banked ready bldgs; lengths indefinite
Launch Site B	IIB		195 x 125	170 x 105	Earth-banked ready bldgs; lengths indefinite
Launch Site C	IIB		--	180 x 115	Earth-banked ready bldg; length indefinite
Launch Site D	IID		155 x 85	150 x 60	Right bldg, earth banked; left, earth mounded; photo quality good for right bldg, poor for left
Launch Site E	IID		180 x 70	180 x 70	Earth-mounded ready bldgs; photo quality fair-to-good for right bldg, fair for left bldg 180 x 70, poor for other left bldg
Launch Site F	IID		180 x 120	175 x 65	Right bldg, earth banked; left, earth mounded; lengths prob inaccurate
Launch Site H	IID		160 x 60	185 x 65	Earth-mounded ready bldgs; photo quality poor
TEYKOVO					
Launch Site A	IIB		170 x 65	160 x 70	Right bldg, earth mounded; left, earth covered; photo quality for right bldg poor, for left fair-to-good
Launch Site B	IIB		150 x 120	170 x 85	Earth-banked ready bldgs; photo quality poor
Launch Site C	IIB		155 x 125	None	Earth-banked ready bldg; photo quality good
Launch Site D	IID		180 x 100	None	Earth-banked ready bldg; photo quality fair
Launch Site E	IID		None	150 x 50	Bldg 150 x 150, earth mounded; bldg 160 x 105, earth banked; photo quality fair-to-good
			135 x 25	155 x 25	Ready bldgs not earth covered; photo quality poor
			155 x 45		
			165 x 50	160 x 50	Earth-mounded ready bldgs; photo quality fair
			175 x 55		
Launch Site F	IID		165 x 50	160 x 45	Earth-mounded ready bldgs; photo quality poor
			185 x 45		
TYUMEN					
Launch Site A	IIC		135 x 105	130 x 85	Earth-banked ready bldgs; photo quality poor for right bldg, fair for left bldg
Launch Site C	IIC		125 x 85	110 x 85	Ready bldgs not earth covered; photo quality fair
			145 x 80	135 x 80	Earth-banked ready bldgs; photo quality fair-to-good for right bldg; fair for left
VERKHNYAYA SALDA					
Launch Site A	IIB		160 x 115	165 x 100	Earth-banked ready bldgs; photo quality fair-to-good for right bldg, poor for left
Launch Site B	IIA		155 x 85	160 x 115	Ready bldgs not earth covered; photo quality good for right bldg; fair for left
Launch Site C	IIA		155 x 85	155 x 95	Ready bldgs not earth covered; photo quality fair-to-good
			155 x 80	145 x 105	Ready bldgs not earth covered; photo quality fair
Launch Site D	IIB		165 x 90	165 x 110	Earth-banked ready bldgs; photo quality fair
			150 x 75	150 x 105	Earth-banked ready bldgs; photo quality good for right bldg, fair-to-good for left
Launch Site E	IIB		120 x 80	175 x 135	Right bldg, earth banked; left, earth banked; photo quality fair
			140 x 35	175 x 115	Right bldg, earth banked; left, earth banked; photo quality fair for right bldg; length prob inaccurate for left
Launch Site H	IID		190 x 55	195 x 60	Earth-mounded ready bldgs; photo coverage poor
			175 x 40	195 x 30	Right bldg and left bldg 160 x 40, not earth covered; other left bldg, earth mounded; photo quality fair for right bldg and left bldg 160 x 40, poor for other left bldg
				160 x 40	
Launch Site I	IID		115 x 45	165 x 105	Right bldg, arched, not earth covered; left bldg, earth covered; photo quality fair for right bldg, poor for left

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Table 1. (Continued)

Complex/Site	Type	Mission	Missile-Ready Bldgs		Remarks
			Right (ft)	Left (ft)	
YEDROVO					
Launch Site A	IIB		120 x 30	150 x 95	Right bldg, arched, not earth covered; left bldg, earth banked; photo quality fair for right bldg, fair-to-good for left
			130 x 25	155 x 105	Right bldg, arched, not earth covered; left bldg, earth banked; photo quality fair for right bldg, fair-to-good for left
Launch Site B	IIB		None	165 x 120	Earth-banked ready bldg; length prob inaccurate
Launch Site C	IID		120 x 45	155 x 50	Right bldg 120 x 45, arched, not earth covered; other 3 bldgs
			165 x 65	200 x 60	earth mounded; photo quality fair for right bldg 120 x 45, poor for others
Launch Site D	IID		210 x 45	None	Earth-mounded ready bldgs; photo quality poor
			160 x 55		
			160 x 70		
Launch Site F	IID		145 x 55	165 x 60	Earth-mounded ready bldgs; photo quality poor
				165 x 65	
Launch Site G	IID		165 x 65	180 x 55	Earth-mounded ready bldgs; photo quality poor
				155 x 65	
YOSHKAR-OLA					
Launch Site A	IIB		160 x 100	160 x 100	Earth-banked ready bldgs; photo quality poor
			155 x 70	160 x 95	Ready bldgs not earth covered; photo quality fair-to-good
Launch Site B	IIB		None	160 x 100	Earth-banked ready bldg; photo quality fair-to-good
Launch Site C	IIB		None	165 x 135	Earth-banked ready bldg; length accurate; width prob inaccurate
Launch Site D	IID		130 x 30	165 x 110	Right bldg, arched, not earth covered; left bldg, earth banked; length of right bldg, estimated; length of left indefinite
Launch Site E	IID		None	110 x 30	Bldg 110 x 30, arched, not earth covered; other bldg, earth banked;
				170 x 105	photo quality poor for bldg 110 x 30, fair-to-good for other bldg
Launch Site F	IID		155 x 50	165 x 45	Earth-mounded ready bldgs; photo quality poor
				195 x 65	
			235 x 25	160 x 30	Ready bldgs not earth covered; photo quality fair
				165 x 30	
YURYA					
Launch Site A	IIA		150 x 85	145 x 105	Ready bldgs not earth covered; photo quality fair-to-good
Launch Site B	IIA		160 x 75	160 x 95	Ready bldgs not earth covered; photo quality fair-to-good
Launch Site C	IIB		140 x 40	155 x 95	Right bldg, earth banked; left bldg, arched, not earth covered; photo quality fair-to-good for right bldg, fair for left
			155 x 120	--	Earth-banked ready bldg; photo quality fair
Launch Site D	IIB		--	155 x 130	Left bldg, earth banked; photo quality fair; dimensions of right bldg cannot be determined
			150 x 35	145 x 100	Right bldg, arched, not earth covered; left bldg earth banked; photo quality fair
			140 x 40	160 x 125	Right bldg, arched, not earth covered; left bldg earth banked; photo quality fair
Launch Site F	IIB		130 x 35	155 x 95	Right bldg, arched, not earth covered; left bldg, earth banked; photo quality fair
			135 x 35	160 x 105	Right bldg, arched, not earth covered; left bldg, earth banked; photo quality fair for right bldg, fair-to-good for left bldg
Launch Site H	IID		155 x 45	155 x 35	Right bldg and left bldg 155 x 35, not earth covered; other left bldg, U/C; photo quality fair
			155 x 55	170 x 60	Earth-mounded ready bldgs; photo quality poor
				200 x 80	
Launch Site I	IID		None	160 x 100	Earth-banked ready bldg; photo quality fair
			None	135 x 105	Ready bldg not earth covered; photo quality fair-to-good
Launch Site J	IID		215 x 45	140 x 35	Right bldgs, earth mounded; left, may not be earth covered; photo quality poor
			160 x 55		

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REFERENCES

PHOTOGRAPHY

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Various [redacted] missions, as shown in Table 1

REQUIREMENT

CIA. C-RR4-51,807

NPIC PROJECT

11761.64

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